

## FUEL BURNING EQUIPMENT FOR INDIRECT HEATING PERMIT APPLICATION NORTH DAKOTA DEPARTMENT OF HEALTH

DIVISION OF AIR QUALITY

SFN 8518 (12-00) (AP-101)

## NOTE: READ INSTRUCTIONS BEFORE COMPLETING THIS FORM.

GENERAL											
Name of Firm o	r Organization							Application Date			
Name of Person Submitting Application					Title				Telephone Number		
Mailing Address	s (Street & No.)			City				State	Zip Code		
Plant Location									Source ID No	o. (AP100)	
EQUIPMENT											
Name of Manufacturer					Rated Capacity/Maximum Input				Model Number		
Purpose											
TYPE OF COM	BUSTION UNIT A	AND FUEL F	EEDING METI	HOD							
	□ COAL (If other solid fuel, specify here:				)	☐ Fuel (	Dil		□ Gas		
□ Pulverized □ Spreader Stoker with Fly Ash Reinjection □ General □ Spreader Stoker without Fly Ash Reinjection □ Dry Bottom □ Fluidized Bed □ Wet Bottom with Fly Ash Reinjection □ Hand-Fired □ Wet Bottom without Fly Ash Reinjection						□ Horizontally Fired □ Tangentially Fired □ Other - Specify:			□ Horizontally Fired □ Tangentially Fired □ Other - Specify:		
NORMAL SCH	EDULE OF OPER	RATION									
Hours Per Day	Days Per Week	Weeks Per Year	Hours Per Year Total	Peak Season (S	Specify Months)						
TYPE AND QU	ANTITY OF FUEL	L EXPECTED	TO BE USE	D IN A CALENDA	AR YEAR						
TYPE AND QUANTITY OF FUEL EXPECTED TO BE USED IN A CALEND Year PRIMARY FUELS				PRIMARY FUELS			STANDBY FUELS				
Year PRIMARY FUELS 20 Type				Туре	Туре						
		Quantity/Ye	ear		Units	Type  Quantity/Year				Units	
		Maxir	num	Minimum	Average		Maximum	Mi	inimum	Average	
Percent Ash (So	olids Fuel Only)										
Percent Sulfur											
BTU Per Unit (S	Specify):										
COMBUSTION	AIR										
□ Natural Draft	□ Induced	□ F	orced	□ Other - Speci	fv·	_		_			

SFN 8518 (12-00) Page 2 (AP-101)							
STACK DATA							
Height Above Grade		(FT)	Gas Temperature at Exit (Average ℉)				
Inside Diameter at Exit		(FT)	Gas Velocity at Exit (Average FF				
Stack Exit	Gas Flow Rate		Average	Maximum			
		ACFM					
		SCFM					
Are sampling ports available? □ No □ Yes - Describe:							
Is any air contaminant control device used i □ No □ Yes - Attach a completed gas	in conjunction with this ed cleaning equipment form	quipment: n (SFN 8532 AP-109) to	o this application				
NEARBY BUILDINGS							
Attach drawings which show the plan and el	levation views of any nea	arby buildings including	the building that houses the fuel-fired equipment.				
STACK EMISSIONS	-						
Pollutant	Maximum Pounds Per Hour	Tons Per Year	Basis and Calculations for Quantities:				
Particulate							
PM <sub>10</sub>							
Sulfur Dioxide							
Nitrogen Oxide							
Carbon Monoxide							
Other - Specify							

Date

Signature of Applicant

## **INSTRUCTIONS**

All applicable portions of this form should be completed by printing or typing. When any item is not applicable the letters "NA" should be placed beside the item.

For the purpose of this application, fuel burning equipment is defined as:

"Fuel-burning equipment" shall mean any furnace, boiler apparatus, stack, or appurtenances thereto used in the process of burning fuel or other combustible material for the primary purpose of producing heat or power by indirect heat transfer.

Fuel-burning equipment, other than smokehouse generators, which meet all of the following criteria are not required to obtain a Permit to Construct or Permit to Operate:

- 1. The aggregate heat input per unit does not exceed ten million British thermal units per hour.
- 2. The total aggregate heat input from all equipment does not exceed ten million British thermal units per hour.
- 3. The emissions from all equipment do not exceed twenty-five tons (22.67 metric tons) per year of any air contaminant.

A separate permit application should be submitted for each separate piece of fuel-burning equipment that requires a permit.

RATED CAPACITY - MAXIMUM INPUT shall be the equipment manufacturer's or designer's guaranteed maximum input, whichever is greater.

A description of the delivery to, storage on, and method of transporting fuels within the plant should be specified for all solid and liquid fuels used by this indirect heat exchanger. (Example: coal delivered by open truck, stored in open piles, and carried to boiler by conveyor belt system.)

STACK EMISSIONS - The maximum emission quantity per hour at the rated capacity using the primary fuel and the quantity per year emitted from actual use of the primary and secondary fuels combined should be entered here. The estimating basis for these quantities should be described. If emission factors are used, the source of these factors and the factors themselves should be identified.

NOTE: All information included in the application, including maximum estimated emission rates, will be used to make the above determinations. The information that is supplied in the application may be used to establish permit conditions. The emission rates provided should be based on the most credible data available. Although AP-42 provides general information, it should not be solely relied on to develop emission rates. Other sources of information that accurately represent the actual conditions that the emission unit will be operated under, such as actual test data or manufacturer's data, may be preferable.